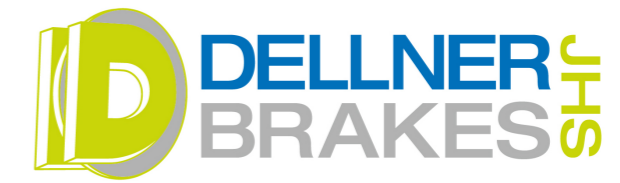


Rotor lock



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Reliable service and sound maintenance are essential if systems perform interdependent tasks. In my opinion this rotor lock is a very smooth solution.

Nancy Pleger, Office Administration

JHS-R200-154



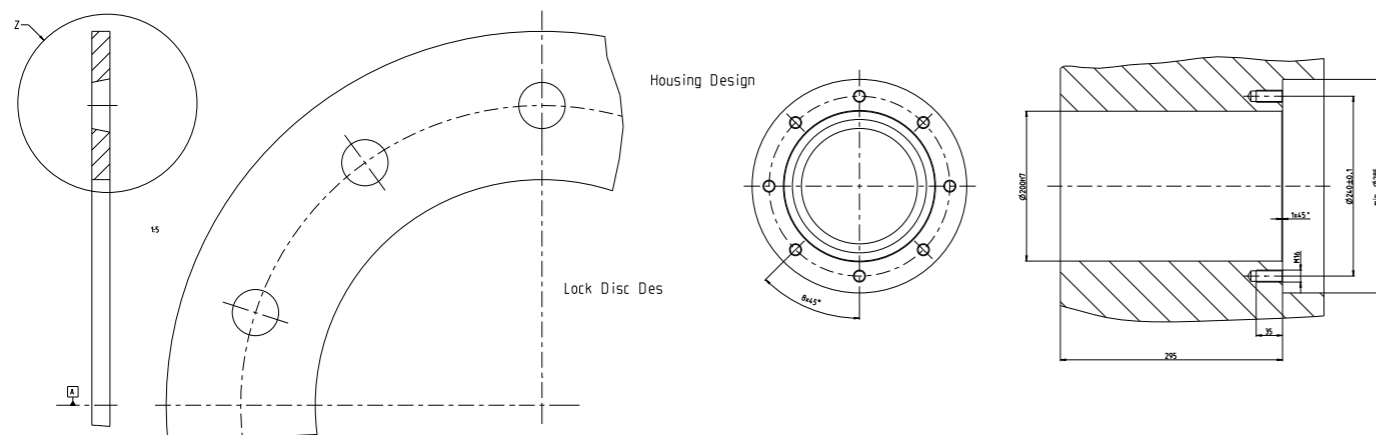
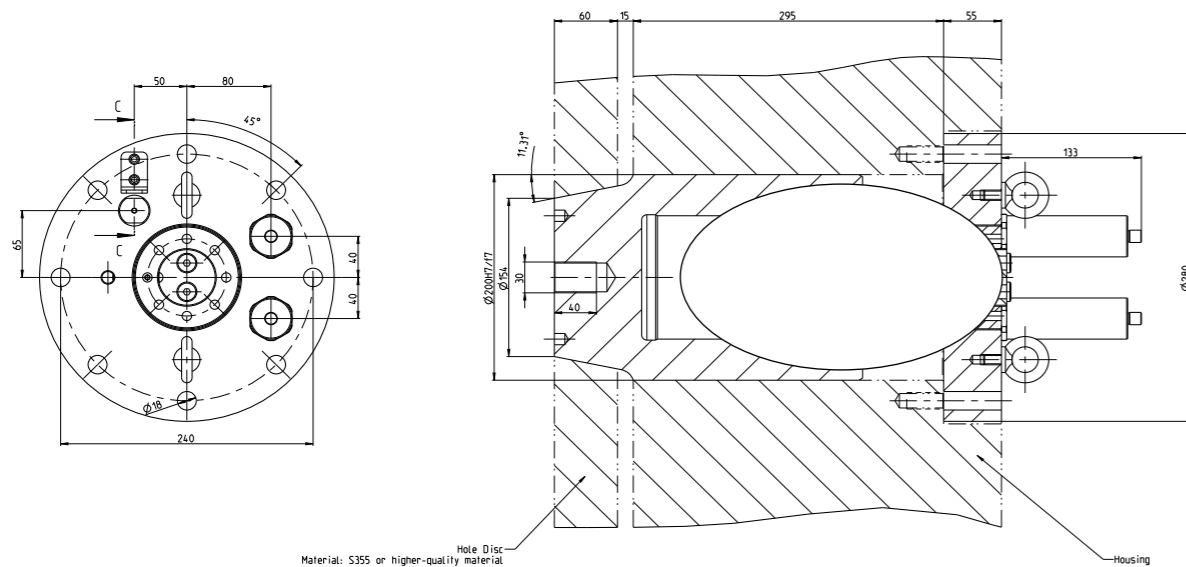
- Hydraulic operation
- Standard design
- Monitoring and display of end position "rotor locked/rotor unlocked"
- Low-maintenance design

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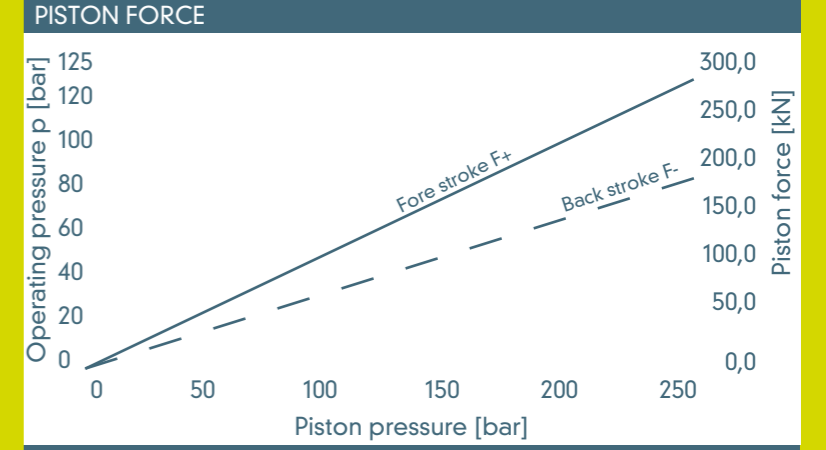
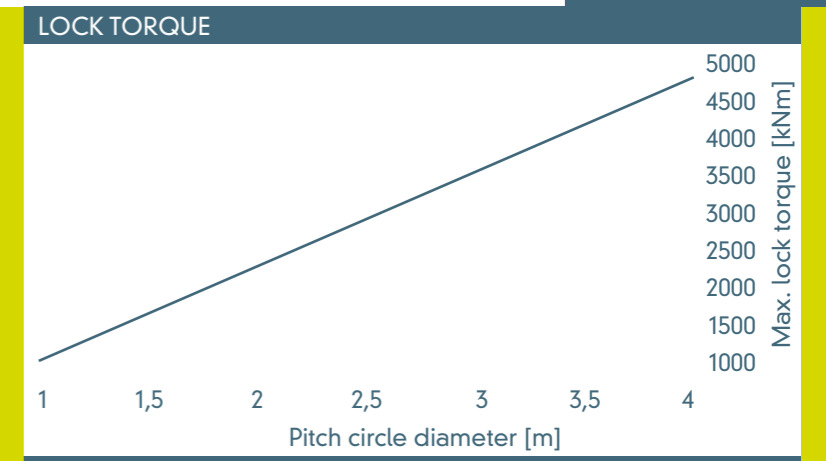
The rotor lock is used for safety purposes during maintenance operations to stop the rotor mechanically. A bolt is being extended and engages the rotor lock disc.

The respective end position of the lock bolt is monitored and a corresponding signal transmitted to the turbine control. This allows safe maintenance work.



TYPE JHS-R200-154	
Weight	90 kg
Outer dimensions (in lock position) \varnothing 280 x 435 mm	
Full stroke*	80 mm
Max. lateral force F_L	2450,0 kN
Operating pressure p (max)	250 bar
Max. force fore stroke F_+	282,7 kN
Max. force back stroke F_-	187 kN
Piston diameter	120,0 mm
Piston area fore stroke	113 cm ²
Piston area back stroke	74,6 cm ²
Oil volume per 1 mm stroke	11 cm ³
Oil volume per 75 mm stroke	848,2 cm ³
Time for activation	60 s
Temperature range	-40 / +60 °C
Pressure connection port	2 x G1/4

* different strokes on request



LOCK TORQUE	
Lock torque formular:	
$M_L = a \times F_L \times D_{eff} / 2$	
M_L	= Locking torque [kNm]
a	= Number of rotor locks acting on the disc
F_L	= Max. lateral force for the rotor lock [kN]
D_{eff}	= Effective pitch circle diameter [m]

- OPTIONS**
- With redundant lock switches as back up
 - Position locking plate
 - Hydraulically operated systems provided with check valves